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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/702,033	11/06/2003	Mladen Marko Kekez	MAC 494-4	. 7410
75	590 03/14/2006		EXAM	INER
William A. Blake			PARRIES, DRU M	
Jones, Tullar & Cooper, P.C. P.O. Box 2266 Eads Station			ART UNIT	PAPER NUMBER
Arlington, VA 22202			2836	
		DATE MAILED: 03/14/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Anniination No	Annling				
·	Application No.	Applicant(s)				
Office Action Commence	10/702,033	KEKEZ ET AL.				
Office Action Summary	Examiner	Art Unit				
	Dru M. Parries	2836				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w.  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l, ely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status	•					
1) Responsive to communication(s) filed on 06 No	ovember 2003.	•				
2a) ☐ This action is <b>FINAL</b> . 2b) ☒ This	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowar	) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
<ul> <li>4)  Claim(s) 1-10 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdraw</li> <li>5)  Claim(s) 2-7 is/are allowed.</li> <li>6)  Claim(s) 1 and 8-10 is/are rejected.</li> <li>7)  Claim(s) is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or</li> </ul>	vn from consideration.					
Application Papers						
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on <u>06 November 2003</u> is/an Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the Ex	re: a) $\square$ accepted or b) $\square$ objected or by $\square$ objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is objected.	ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 9-15-04.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa					

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#### **DETAILED ACTION**

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#### **Priority**

1. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Canada on October 28, 2003. It is noted, however, that applicant has not filed a certified copy of the 2,447,094 application as required by 35 U.S.C. 119(b).

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 8 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ohkawa (5,301,362), Thompson (Reg. Number H148), and Prior Art (Admission). Ohkawa teaches a system that generates and emits RF pulses. He teaches this being accomplished by an explosion via magnetic and explosive particles and inducing high power electrical pulse. He also teaches the system being used to power broadband spark transmitters or a narrow band transmitter of different power levels. He also teaches the idea of adding a capacitor to the system to increase the power of the electrical pulse (Abstract). Ohkawa fails to explicitly teach what type of device is initiating the explosion to produce a high power electrical pulse. Thompson teaches a magneto-cumulative generator that can produce strong electrical current pulses. He also teaches that upon detonation of the explosion the inner tube of the generator flares radially, forming a vortex wake, with a conical-shaped structure (Col. 2, lines 2-24). He also teaches that the explosive material could be any type of conventional explosive (Col. 1, lines 58-59).

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obvious to one of ordinary skill in the art at the time of the invention to use a magnetocumulative generator to power the transmitters in Ohkawa's invention because they have
inherently low impedance and an energy density that is four to six orders of magnitude higher
than traditional high voltage capacitors and smaller in size. It also would have been obvious to
one of ordinary skill in the art at the time of the invention to incorporate a capacitor on the power
source (MCG) to increase the power of the electrical pulse. It also would have been obvious to
one of ordinary skill in the art at the time of the invention to place the capacitor between a turn of
the helix and an end cap of the MCG, since it has been held that rearranging parts of an invention
involves only routine skill in the art. *In re Japikse*, 86 USPQ 70. It also would have been
obvious to one of ordinary skill in the art at the time of the invention to have the MCG
containing 0.5-2 kg or 10-60 g and generating a RF pulse of 10-40kJ, since it has been held that
where the general conditions of a claim are disclosed in the prior art (Ohkawa), discovering the
optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233.

4. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ohkawa (5,301,362), Thompson (Reg. Number H148), and Prior Art (Admission) as applied to claim 1 above, and further in view of Brumfield (3,317,763). Ohkawa, Thompson and Admission teach a pulse-generating device as described above. Ohkawa fails to teach adding a low-ionization material. Brumfield teaches adding a thin layer (slab) of low-ionization material in the explosion chamber (Col. 2, lines 36-42). It would have been obvious to one of ordinary skill in the art at the time of the invention to add a low-ionization material into the explosion chamber in the generator because it would increase the electrical conductivity of the explosion.

### Allowable Subject Matter

5. Claims 2-7 are allowed.

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6. The following is an examiner's statement of reasons for allowance: the references of

record, either alone, or in combination, do not teach or suggest at least the limitations of: a

helical Magneto-Cumulative Generator emitting RF pulses out of both ends of the device, upon

flight of the generator, which is recited in claim 2. Claims 3-7 are dependent upon claim 2,

therefore they are allowed as well.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dru M. Parries whose telephone number is (571) 272-8542. The examiner can normally be reached on Monday -Thursday from 8:00am to 5:00pm. The

examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Brian Sircus, can be reached on 571-272-2800 x 36. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be

obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

**DMP** 

3-4-2006

BRIAN SIRCUS

SUPERVISORY PATENT EXAMINE!

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